WHAT IS CLAIMED IS:

1. A multi-part carrying structure apparatus for supporting a body part of a patient, the apparatus comprising:

a main carrying structure having a narrow support surface;

a first additional part having a support surface, the first additional part being detachably connected to the main carrying structure, wherein when the first additional part is connected to the main carrying structure a first combined support surface including the narrow support surface of the main carrying structure and the support surface of the first additional part is wider than the narrow support surface of the main carrying structure; and

wherein the main part and the first additional part are produced from a material having a high degree of transparency for X-rays.

2. The apparatus of claim 1, further comprising a coupling element for connecting the main part to the first additional part.

3. The apparatus of claim 1, wherein the main part and the first additional part are configured in board form.

4. The apparatus of claim 1, further comprising a second additional part, the second additional part being detachably connected to a second lateral side of the main carrying structure, wherein when the second additional part is connected to the main carrying structure a second combined support surface including the narrow support surface of the main carrying structure and a support surface of the second additional part is wider than the narrow support surface of the main carrying structure;

wherein the first additional part is detachably connected to a first lateral side of the main carrying structure; and

wherein the main part and the first additional part are produced from a material having a high degree of transparency for X-rays.

5. The apparatus of claim 4, wherein the first additional part and the second additional part are configured in a mirror-inverted manner in relation to each other.

6. The apparatus of claim 1, wherein the main part extends over an entire length of the carrying structure.

7. The apparatus of claim 1, wherein the main part is configured in the form of a T.

8. The apparatus of claim 1, wherein the main part is configured in the form of a Y.

9. The apparatus of claim 1, wherein the main part and the first additional part are produced from a carbon-fiber material.

10. The apparatus of claim 9, wherein the main part and the first additional part are formed as solid boards.

11. The apparatus of claim 10, wherein the main part and the first additional part have a trapezoidal cross-section.

12. The apparatus of claim 2, wherein the coupling element is produced from a carbon-fiber material.

13. The apparatus of claim 2, wherein the coupling element includes a connecting element that is movably mounted on the main part and can be introduced into a receptacle within the first additional part.

14. The apparatus of claim 2, wherein the coupling element includes a connecting element that is movably mounted on the first additional part and can be introduced into a receptacle within the main part.

15. The apparatus of claim 13, wherein the coupling element is configured as a cross member that is displaceably mounted transversely in relation to the longitudinal axis of the main part.

16. The apparatus of claim 14, wherein the coupling element is configured as a cross member that is displaceably mounted transversely in relation to the longitudinal axis of the main part.

17. The apparatus of claim 14, wherein the connecting element is displaceably mounted in a guide that is fixed on the additional part and can be introduced into a receptacle of the main part.

18. The apparatus of claim 1, further comprising a table-top segment of a patient supporting table to which the main part can be coupled.